

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009817 A2

(51) International Patent Classification⁷: **B61B 12/04**

(21) International Application Number:
PCT/GB2004/002796

(22) International Filing Date: 1 July 2004 (01.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0316307.8 11 July 2003 (11.07.2003) GB

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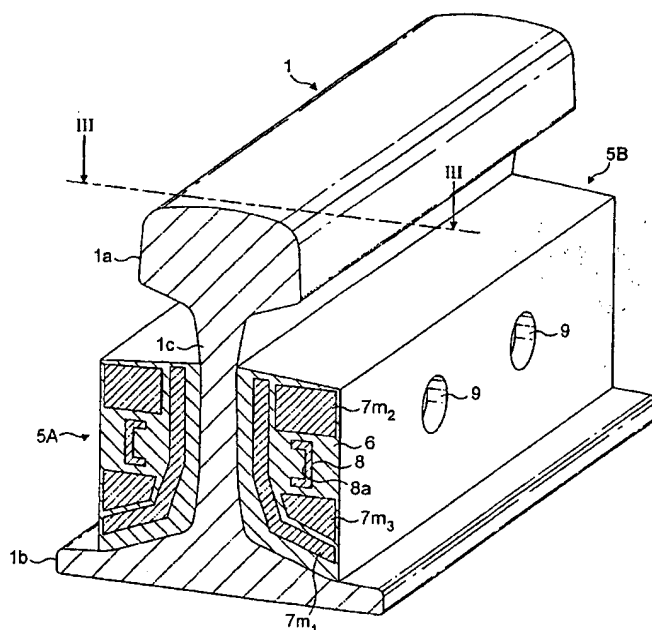
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: TUNED ABSORBERS FOR RAILWAY RAILS



(57) Abstract: A tuned absorber (5A, 5B) for attachment to a railway rail (1) comprises a body (6) formed of elastomeric material and of at least one region of a first material, denser than the elastomeric material, located within the elastomeric material and forming an active mass (7m₁, 7m₂, 7m₃). A member (8) of a second material denser than the elastomeric material is also located within the elastomeric material, adjacent to the active mass (7m₁, 7m₂, 7m₃), for coupling to the rail (1) so as to provide a resonant surface against which the active mass (7m₁, 7m₂, 7m₃) can vibrate. Alternatively, or in addition, a tuned absorber (5A, 5B) has a first active mass (7m₁) and at least one further active mass (7m₂, 7m₃) arranged so as to be effectively coupled for vibration in a first frequency range and such that the or each further active mass (7m₂, 7m₃) is decoupled from the first active mass (7m₁) for vibration in a second frequency range higher than the first. Alternatively, or in

In addition, attachment means for applying a securing force to maintain a tuned absorber (5A, 5B) in position on the rail web (1c) comprise a spring steel strap (40) having an overcentre device which locates on the rail foot (1b) and is operable, when snapped into a closed position, to apply a compressive force to the tuned absorber (5A, 5B).

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Published:

— without international search report and to be republished upon receipt of that report

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